



自動夾蓋裝置  
Automatic cap gripper



自動下蓋系統  
Automatic cap feeding system



鎖蓋裝置  
(伺服驅動)  
Capping system  
(Driven by servomotor)



## FL-041 & CP-150 自動充填機 & 自動下蓋鎖蓋機 (U 型生產線)

### Automatic Filling Machine & Capping Machine with Cap Feeding System ( U-shaped line)

#### 適用範圍

- 充填機：適合多種具流動性及無腐蝕性的液體。
- 鎖蓋機：適用多種尺寸圓形螺紋塑膠蓋／鋁蓋。
- 方瓶、圓瓶、橢圓瓶及各式特殊瓶型皆適合。
- U 形生產線：最適合廠房空間有限之生產需求。

#### 特色介紹

- 液體接觸面使用「316L 不鏽鋼、食品級矽膠軟管 / 鋼絲軟管、鐵氟龍」；主要結構採用 #304 不鏽鋼與鋁合金，衛生等級高，符合食品及醫藥業生產規範。
- 日本三菱 PLC，搭配日本富士 7 吋彩色人機觸控螢幕，可直接輸入所需充填量，直覺式操作最方便。
- 充填系統：採用「伺服馬達」，充填精準度高，充填速度可依液體特性自由調整。此外，充填嘴伸入瓶內，以不同之充填速度進行分段式充填，有效避免液體充填時噴濺至瓶外或降低起泡程度。
- 鎖蓋系統：採用「伺服馬達」控制鎖蓋扭力，不易刮傷瓶蓋表面。扭力值直接從觸控螢幕上輸入，設定方便且鎖蓋精確。
- 搭配自動下蓋系統，免人工逐瓶置蓋，節省人力提高產能。
- 內建 50 組記憶模組，適合生產多種產品，不需重覆設定。

#### 機台規格

機台尺寸	2600(長) x 2600(寬) x 2100(高) mm
動力需求	電壓 220V，頻率 50/60Hz，三相，視在功率 5.25KVA
需求空壓	5kg/cm <sup>2</sup> 以上 (請自備空壓來源)
機台產能	約 16 ~ 20 瓶 / 每分鐘
充填精度	± 3 ml (以 1000 ml 為例)
選配項目	(1) 自動進瓶 / 收瓶轉盤 (圓瓶專用) (2) 補料泵浦

#### Field of Application

- Filling is applicable for many kinds of flowing and non-corrosive liquids.
- Capping is applicable for various flat screw caps.
- For square, round, oval bottles and other special shapes of container.
- U-shaped line: especially suitable to be used in limited plant space.

#### Features

- Liquid contact parts made of 316L stainless steel, food grade silicone tube / wire hose, Teflon, main structure is made of #304 stainless steel and aluminum alloy meet high sanitary demands for food and pharmaceutical industries.
- Japan Mitsubishi PLC and 7" color touch screen (HMI). Filling volume and filling time can be set from the screen conveniently.
- Filling system: Servomotor offers high filling precision. Filling speed can be adjusted based on liquid properties. Besides, Filling nozzles enter into bottles with different filling speed to prevent spraying out of bottle while filling proceeding and reduce foaming degree.
- Capping system: Capping torque is controlled by a servomotor to prevent surfaces of caps not to be scratched easily. The torque can be set conveniently from touch screen.
- Automatic cap feeding system improves the production efficiency and reduces labor cost of manual cap feeding.
- 50 sets of memory storage: Perfect for various products without repeated setting.

#### Specifications

Machine Dimension	2600(L) x 2600(W) x 2100(H) mm
Power Requirement	220V, 50/60Hz, 3 Phase, 5.25KVA
Pneumatic Requirement	5kg/cm <sup>2</sup> at least (prepared by buyer)
Production Capacity	About 16 ~ 20 PCS / per minute
Filling Precision	± 3 ml (based on filling 1000 ml)
Optional Item	(1) Automatic bottle feeding / collection turntable (only for round bottles) (2) Liquid feeding pump